



Relationship between terrain slope data generated from TOPSAR DEM, and the local geology of Arkaroola Syncline. The principal units within the fold sequence having prominent slope patterns and member sequences within these units can also be identified. For example, in vicinity of the closure of unit *Pwu*, seven individual bedding layers (members) can be identified. The accompanying slope profile along transect AB demonstrates that steep slopes (15-30°) are closely linked to resistant lithologies, such as the sandstone *Phl* unit, and shallow slopes (5-15°) are indicative of nonresistant rocks, such as the shales of units *Pft* and *Pwb*